DERWENT-ACC-NO:

1993-294550

DERWENT-WEEK:

199337

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TITLE:

Sediment removal from filter cartridges -

includes

cleaning by scrapers connected to springs and

washing in

counterflow at increased temp.

INVENTOR: BOROVSKII, A P; SINITSA, I T

PATENT-ASSIGNEE: DONTEKHENERGO PRODN ASSOC[DONTR]

PRIORITY-DATA: 1988SU-4422054 (May 24, 1988)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE

PAGES MAIN-IPC

SU 1764670 A1 September 30, 1992 N/A

005 B01D 024/46

APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

SU 1764670A1 N/A 1988SU-4422054

May 24, 1988

INT-CL (IPC): B01D024/46

ABSTRACTED-PUB-NO: SU 1764670A

BASIC-ABSTRACT:

The process includes mechanical cleaning by scraper elements connected to

spring elements and simultaneous washing in counterflow at temp.

the filtration temp., and then at temp. equal to or lower than that.

device contains cartridges (1), scrapers (2) connected to springs (3, 4), and

board (5). The <u>springs are made of alloy ''nitinol''</u> contg. 54.5% nickel and

titanium the rest; the material has form memory and martensite transition in

the range 40-80 deg. C, and is specially pretreated. This can be a

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part of

filter contg. body (6), partition dividing body into chamber (7) and lower

output chamber (8), perforated partition (9) forming conic space (10), input

pipe (11), output pipe (12) for sediment, bottom outlet (13) for filtrate, and

additional outlet (14) for sediment.

Input suspension enters the conic space and through perforations goes into

upper chamber, then through cartridges; on their outer surfaces a layer of

powdered ionic substance is formed, and purified water from inner hollows of

cartridges goes into output chamber.

 $\label{eq:use_advantage} \mbox{USE/ADVANTAGE - In soprtion filters for deep desalination and purificn. of}$ 

water contg. corrosion prods. The reliability and effectiveness are increased,

and the device construction simplified. Bul.36/30.9.92.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: SEDIMENT REMOVE FILTER CARTRIDGE CLEAN SCRAPE CONNECT

SPRING

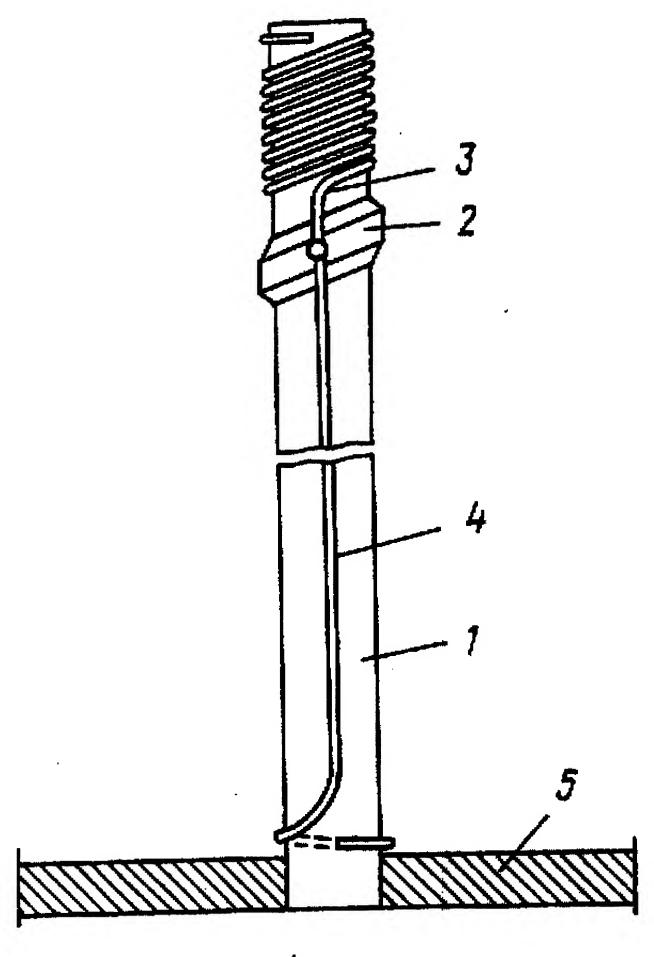
WASHING COUNTERFLOW INCREASE TEMPERATURE

DERWENT-CLASS: D15 J01

CPI-CODES: D04-A01F; J01-F02B; J01-H;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-130702



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